Figure 1: Major Factors Determining Blood Glucose Dynamics Physical Activity regulation Counter-Food Insulin Hyperglycemia. Glucose Range: 70-180 mg/dl Hypoglycemia Target Blood

Figure 2: Dynamic Network Model of BG Fluctuations

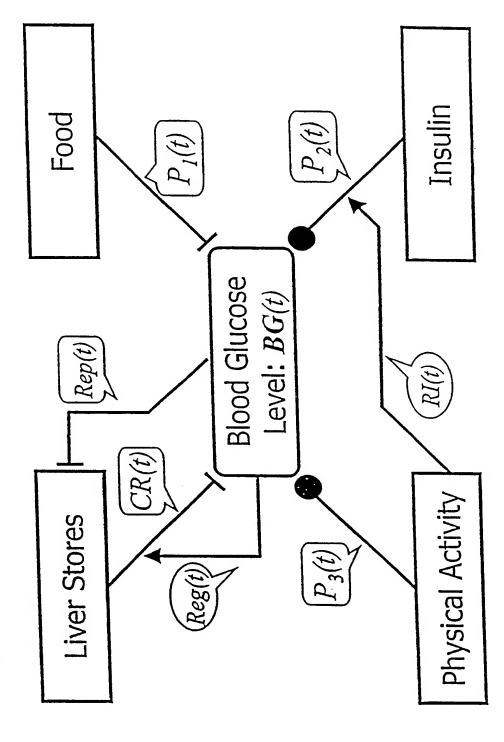
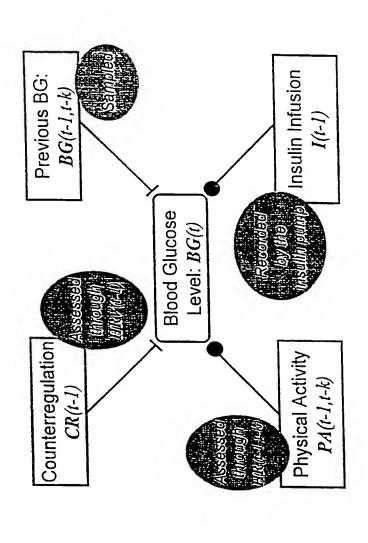


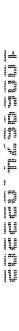
Figure 3: Dynamic Forecast of BG Fluctuations

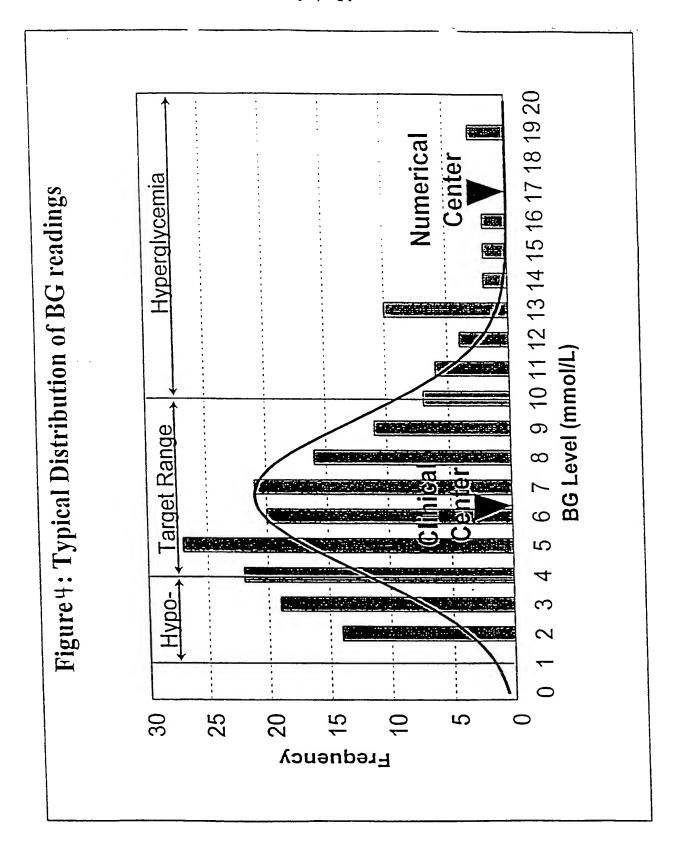
ACEMBET APPEN

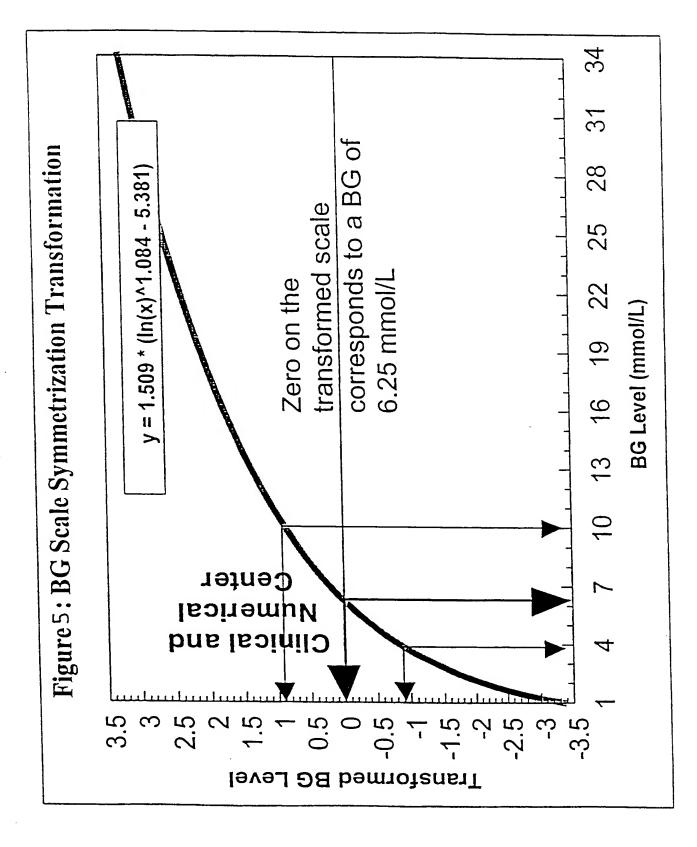


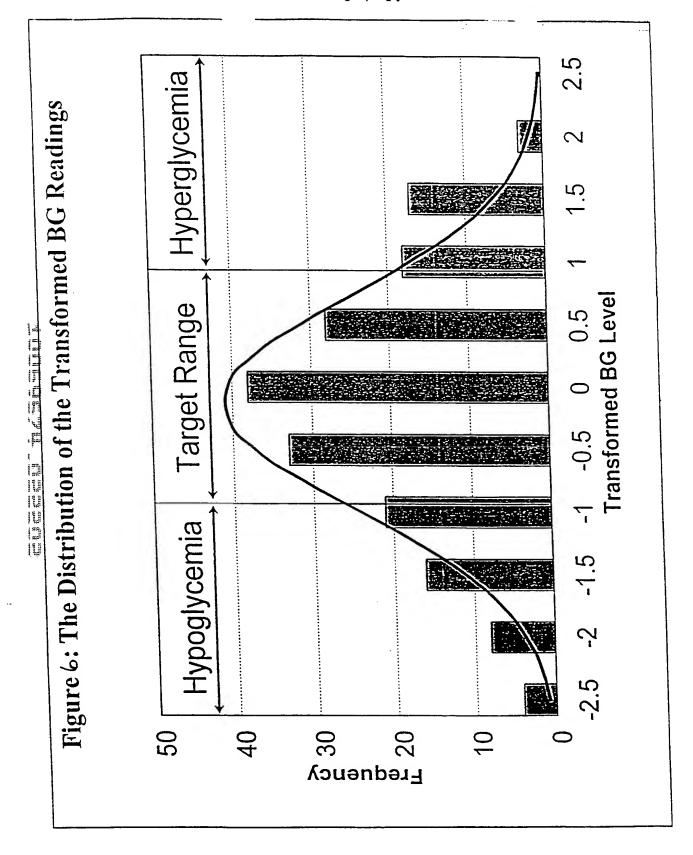
- A series of previously recorded BG readings at moments of time 1-1,..., 1-k provides a basic trend for future BG fluctuations, and replaces the evaluation of food intake in Figure 11;
 - A series of previously recorded HR values at moments of time 1-1,..., 1-k provides physical activity data; Autonomic nervous system activity at a previous moment of time is assessed through HRV;

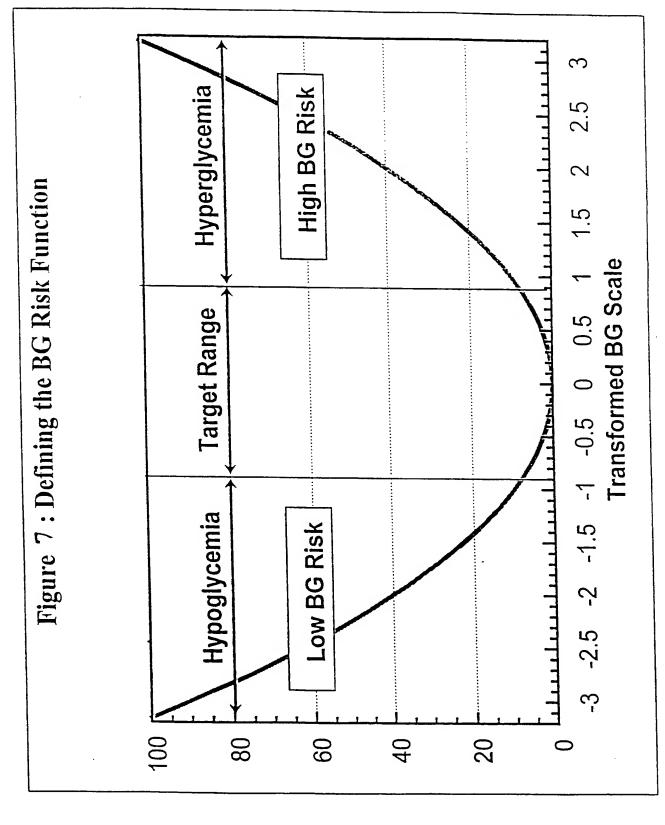
 - Insulin infusion records from the insulin pump provide information for the current insulin action level.

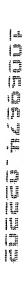


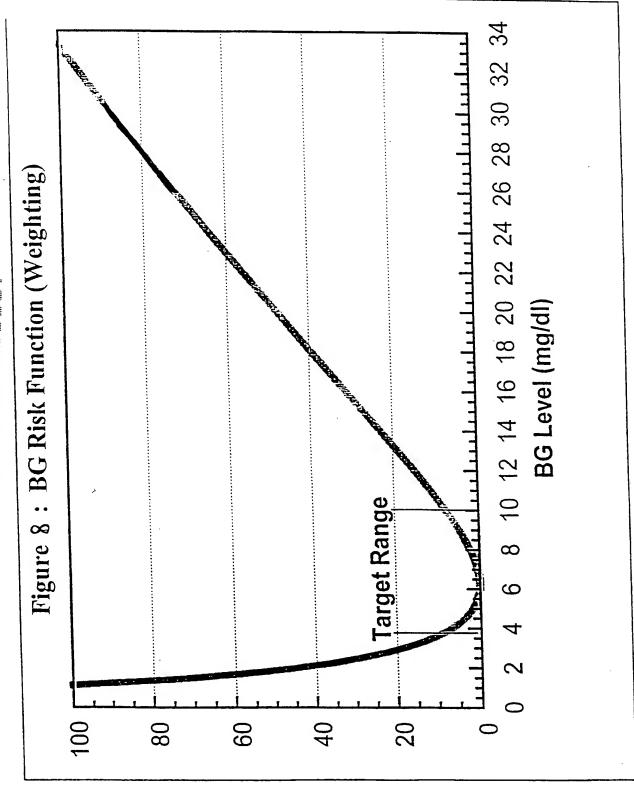






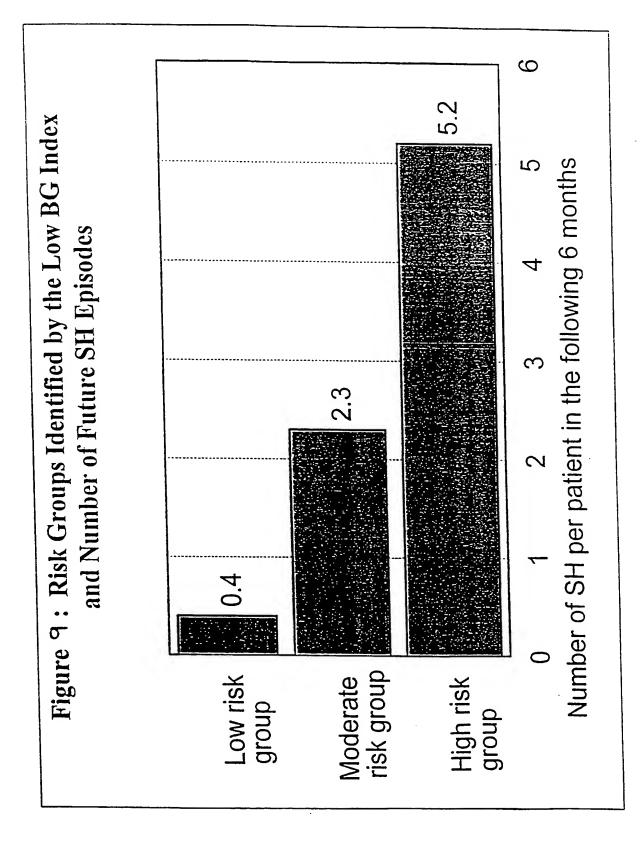






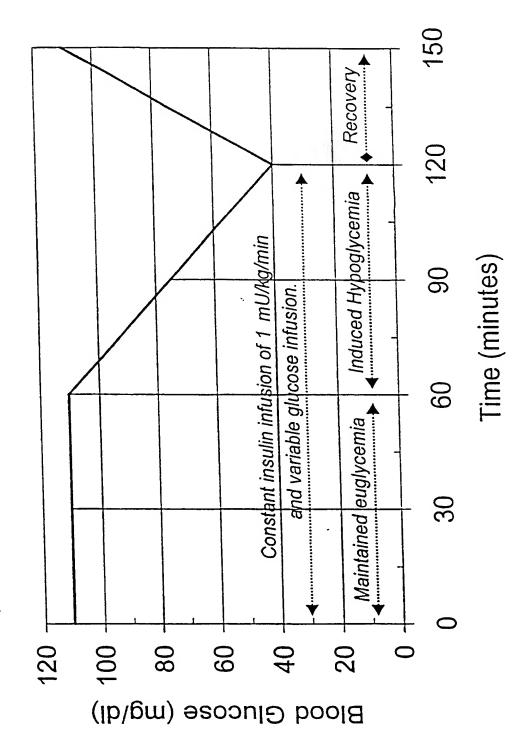


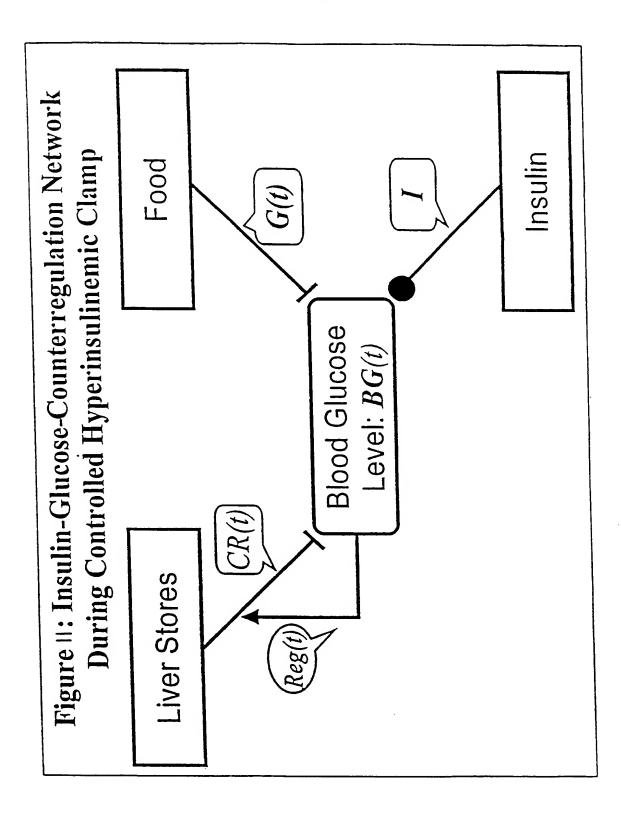
my 18 6 7

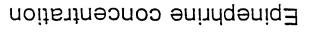


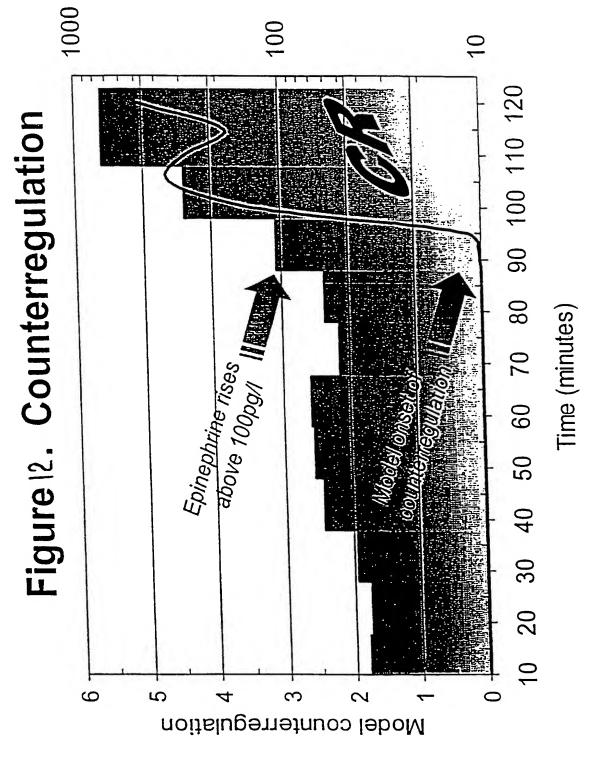
ANDROKYL SWEET

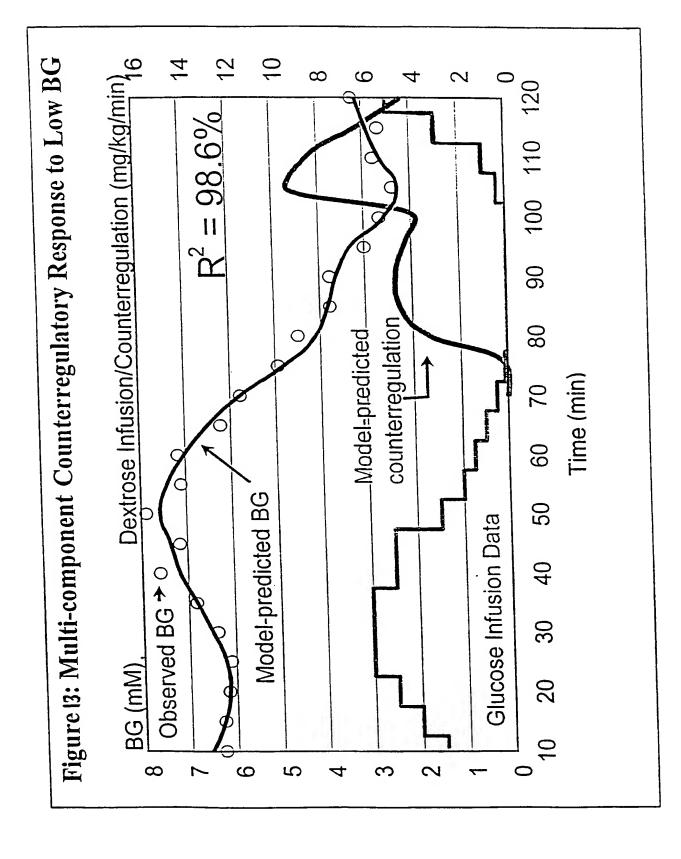
Figure 10: Hyperinsulinemic Clamp:Design of the Study



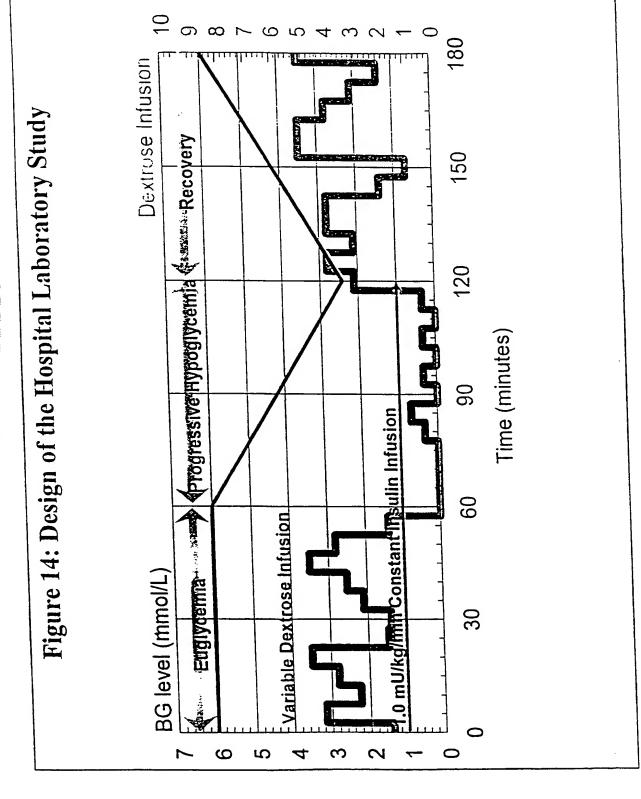












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